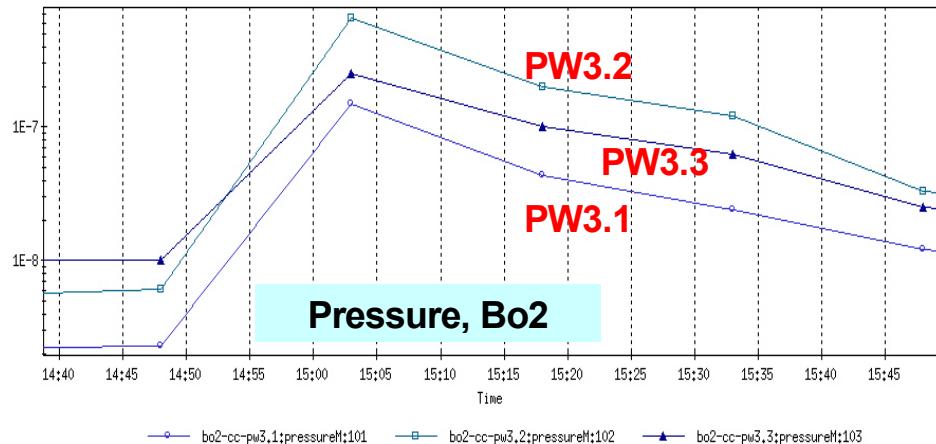
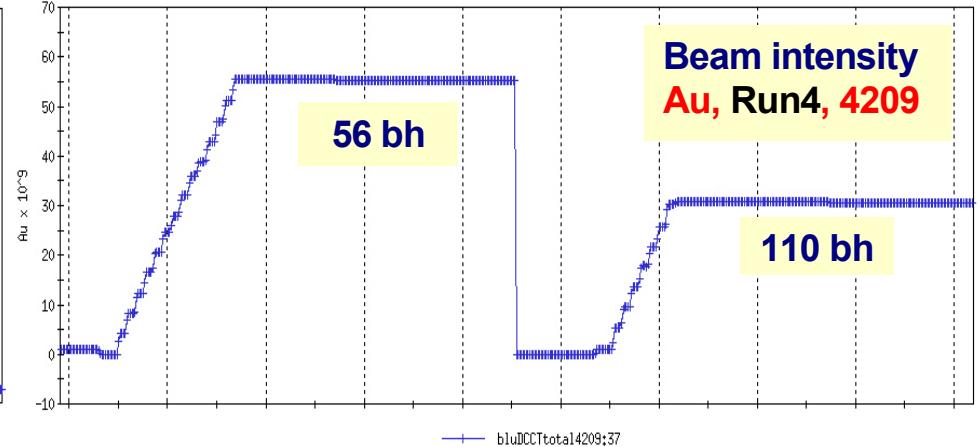
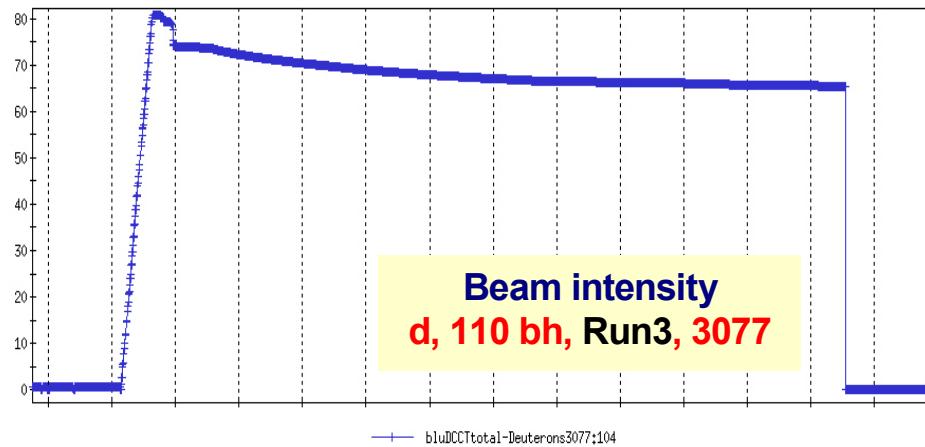
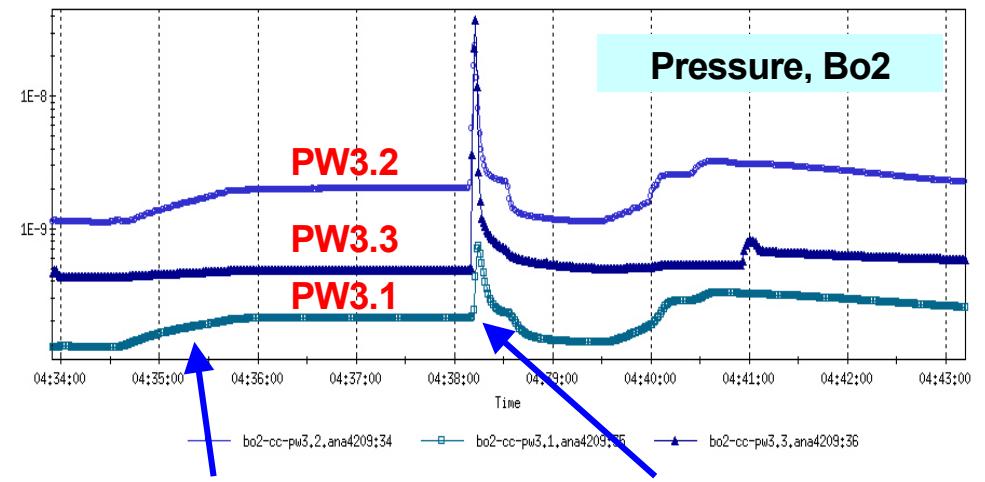


Beam study observation, SYZ, 1-9-04

I. NEG pipe at Bo2, NEG helped?

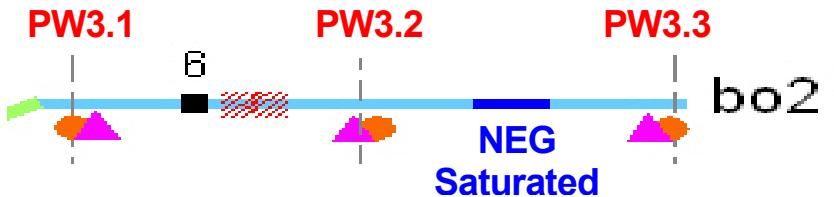


Typical pressure rise pattern:
pressure rise is highest at 3.2,
lower at 3.1 and 3.3.

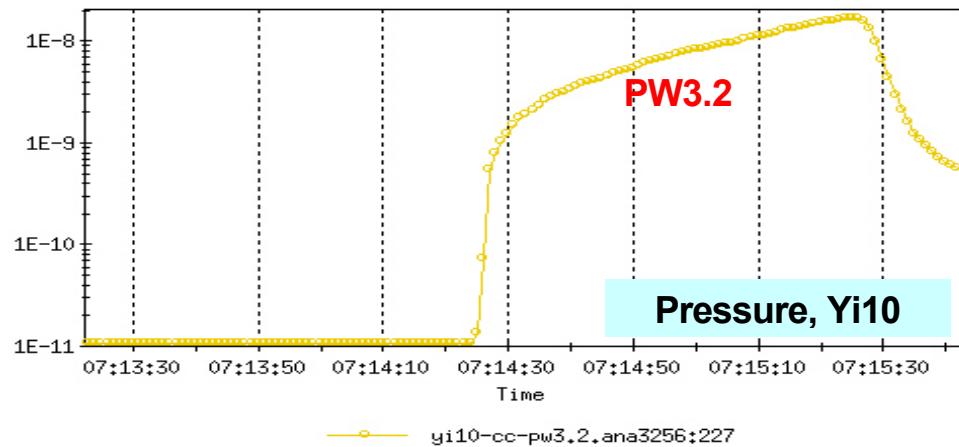
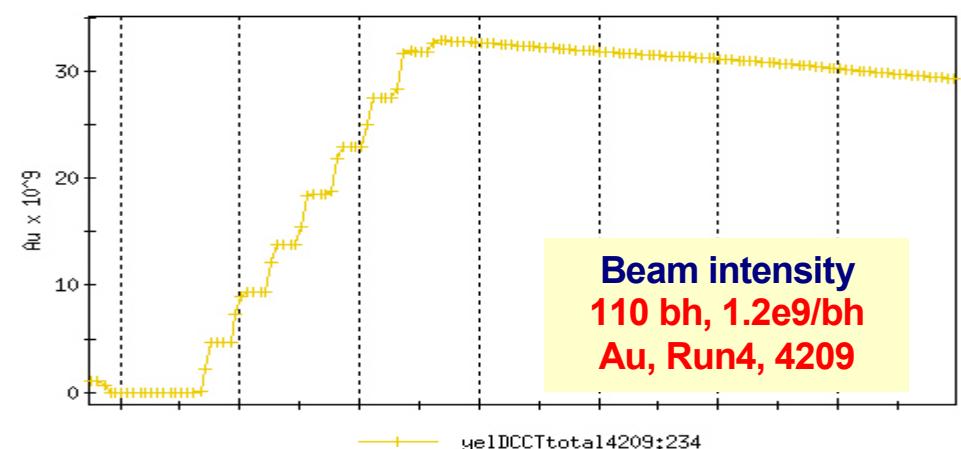
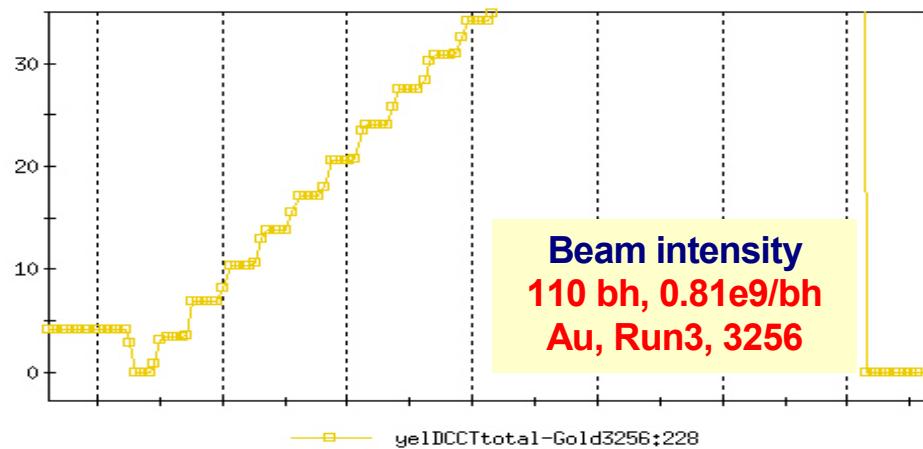


EC? PW3.3 did not
come up, 3.2 and 3.1
similar

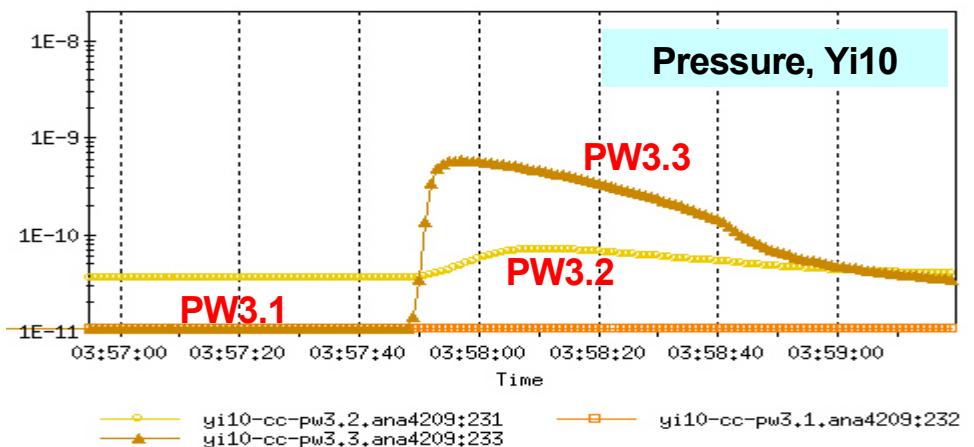
Same incident happened
22 seconds later again,
reason is not clear.



II. NEG pipe at Yi10, NEG helped?

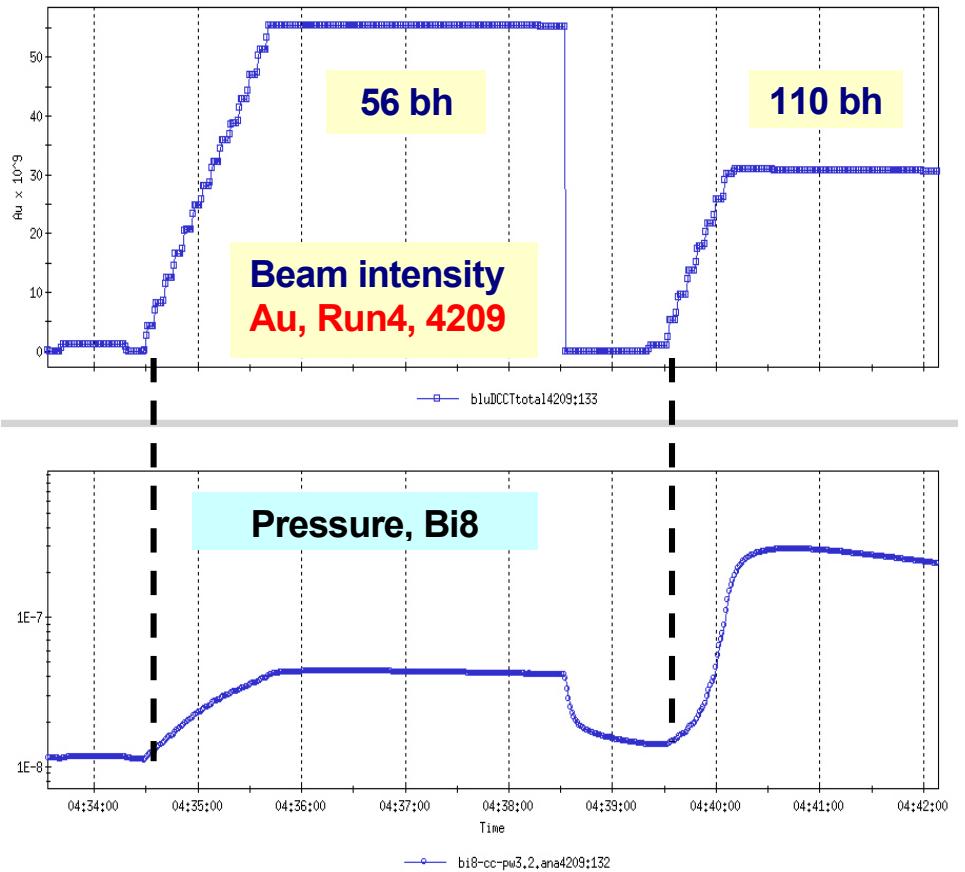
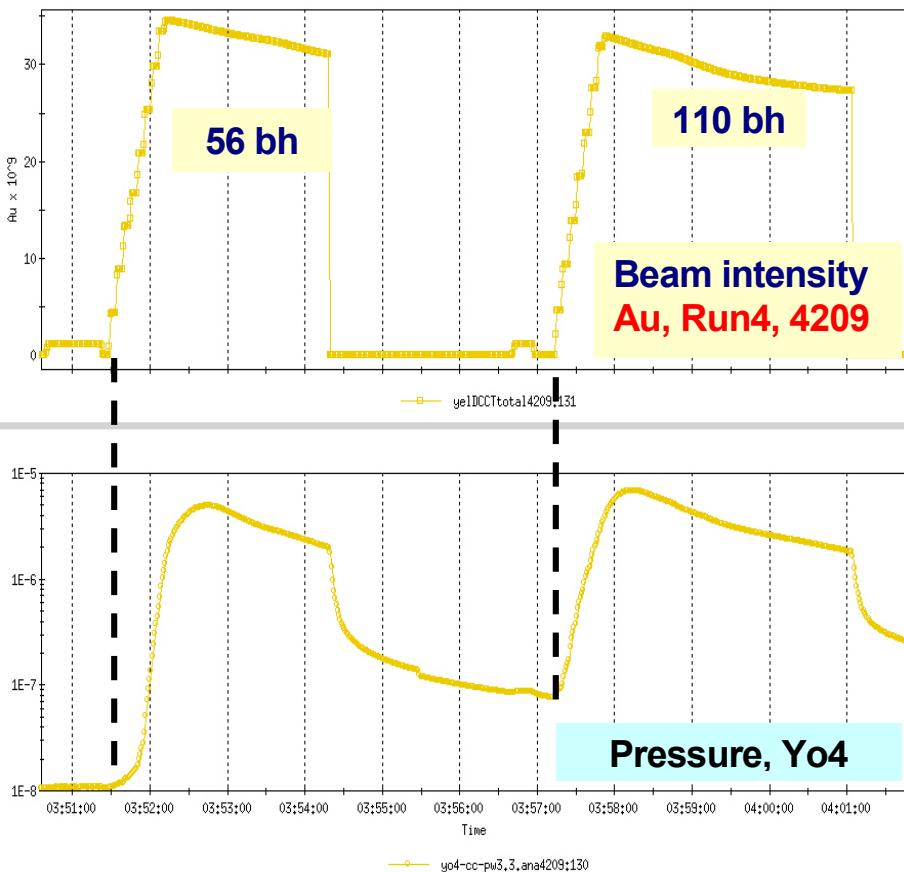


PW3.2 come up at the intensity of $25\text{e}9$.



PW3.3 rises at the intensity of $25\text{e}9$, higher bunch intensity
PW3.2 rises a little.

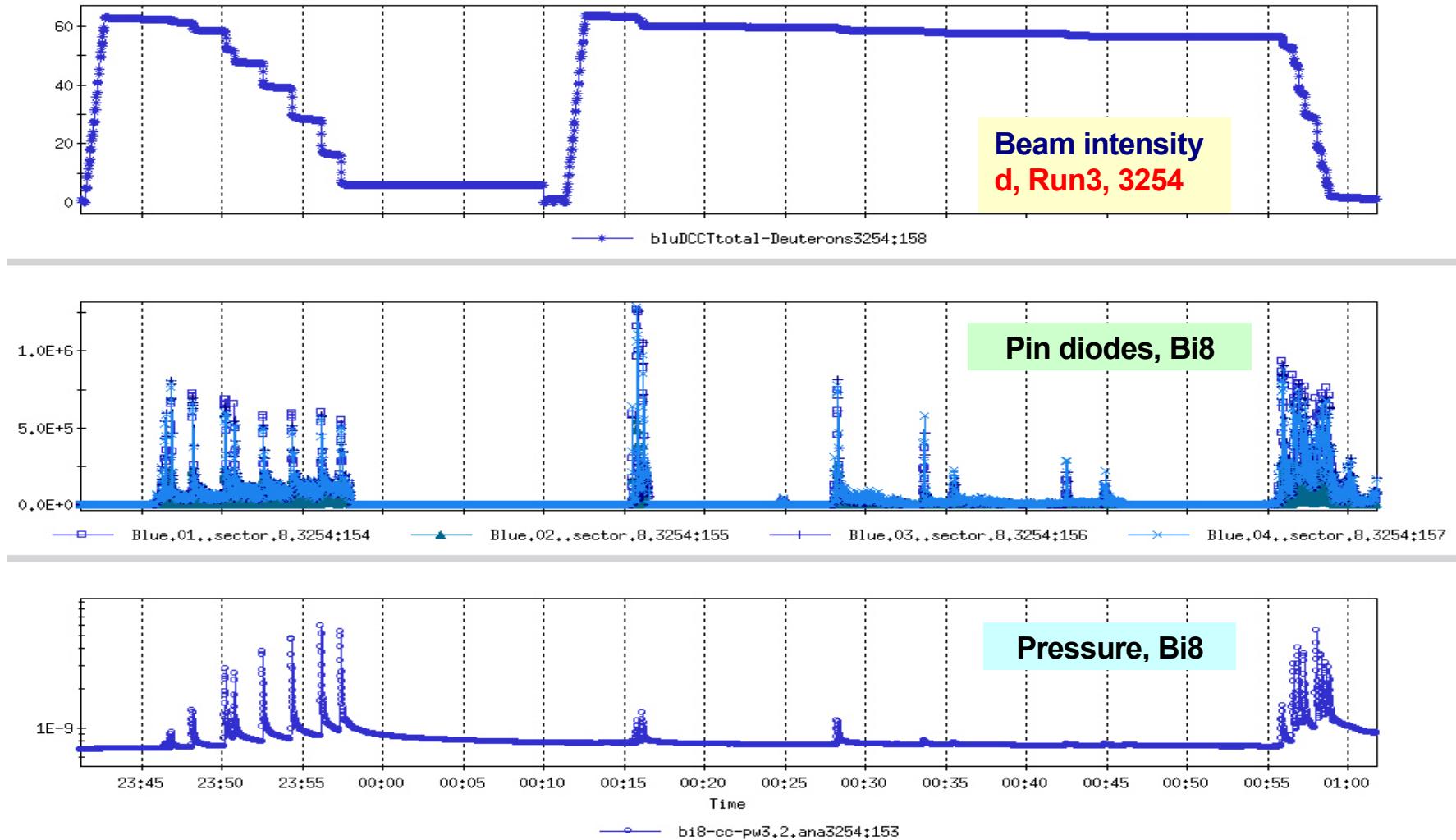
III. Yo4 and Bi8, current limitations?



- Yo4 not dependent on bunch spacing.
- Zero threshold.
- Pressure rise at the transition.
- Scraping dominant?

- Bi8 dependent on bunch spacing.
- Zero threshold?
- Little pressure rise at the transition.
- EC dominant?

IV. Bi8, pin-diodes, examples from last run



- Calibration of pin-diodes is difficult.
- Relation between the pin-diodes and pressure rise is with large uncertainty.

Another example - 3238

